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| 09/954,886 | 09/18/2001 | Sanket S. Amberkar | DE3-0173/DP-302828 | DE3-0173/DP-302828 8234 | |
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| EDMUND P. ANDERSON | | | BROADHEAD, BRIAN J | | |
| | HNOLOGIES, INC. il Code: 480-414-420 | | ART UNIT | PAPER NUMBER | |
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| Troy, MI 480 | 007-5052 | | DATE MAIL ED. 10/21/200 | DATE MAIL ED: 10/21/2002 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| Office Action Summary Confice Action Summary Department Departm | | | Application No. | Applicant(s) | — <i>/</i> | | | | |
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| Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of this communication app ars on the cover sheet with th correspond nea address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the MAILING DATE of THIS COMMUNICATION. If the period for reply specified above is less than a thirty (30) stays, a reply within the statistory minimum of thirty (20) stays will be centified on the period for reply specified above is less than the (30) stays, a reply with the statistory minimum of thirty (20) stays will be centified edited. If the period for reply specified above is less than the mainthy period will apply and will region 50% (MONTH) from the maining date of this communication. If the period for reply specified above is less than the mainthy and the statistic period will apply and will region 50% (MONTH) from the maining date of this communication, even if timely filed, may reduce any search period than a specific than a specific the maining date of this communication, even if timely filed, may reduce any search period on the specific and the statistic maining date of this communication, even if timely filed, may reduce any search period on the specific and the statistic maining date of this communication, even if timely filed, may reduce any search period on the specific than a | , | | 09/954,886 | AMBERKAR ET AL. | | | | | |
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| Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Electric filter may be remiselled before the removement of 37 CFR 1.18(e). In no event, however, may a repty be timely filed - ster SK (8) MONTH from the mailing date of this communication. - If the period for repty sectified above, the maintenin stability printed will apply and will be stabilitied by days will be considered timely. - If NO period for repty is secrified above, the maintenin stability printed will apply and will be stabilitied by days will be considered timely. - If NO period for repty is secrified above, the maintenin stability printed will apply and will aspect SIX (8) MONTH file from the maintening date of this communication, even If timely filed, may reduce any - average received by the Office lett then ther then maintening date of this communication, even If timely filed, may reduce any - average precised by the Office lett then the true months after the mailing date of this communication, even If timely filed, may reduce any - average precised by the Office lett then the true months after the mailing date of this communication, even If timely filed, may reduce any - average precised by the Office letter than the remembra the three mailing date of this communication, even If timely filed, may reduce any - average proced by the Office letter than the remembra than the process of the process of the process of the communication of the communication of the process of the ment is cooled in accordance with the practice under Exparte Queyle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims - 4) Gialm(s) 1-3.3 is/are pending in the application. - 4) Gialm(s) 1-3.3 is/are pending in the application. - 4) Gialm(s) 1-3.3 is/are pending in the application. - 5) Gialm(s) 1-3.3 is/are pending in the application of the accordance with the practice under Exparte Queyle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims - 5) Gialm(s) 1-3.3 is/are pending in t | | | Brian J. Broadhead | | | | | | |
| THE MAILING DATE OF THIS COMMUNICATION. Estancians of time map be available under the provisions of 37 CFR 1.136(a). In no event, however, may a raply be lamely filed after SN (6) MONTHS from the nailing date of this communication. The period for reply predicted not reply specified above is less than thing (30) days, a reply within the studency information of the reply and the provision of the reply reply within the studency information of the reply reply within the studency information of the reply reply within the studency information of the reply will be provided the provision of the reply will be provided by the Office and the medition of the studency in the replaced of the provision of th | The MAILING DATE of this communication app ars on the cover sheet with the correspondence address Period for Reply | | | | | | | | |
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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claims 10 recites the limitations "its", it is unclear what "its" is. Since the claim is unclear, the claim has been interpreted as set forth below.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-6, 8-11, 20, 23-28, and 30-33 are rejected under 35 U.S.C. 102(b) as being anticipated by Schaffer, 5048630.
- 3. As per claims 1, 2, 3, 4,12, 20, 23, 24, 25, and 26, Schaffer discloses a torque assist function responsive to a signal indicative of an input device torque for providing a torque-assisting command to a motor on column 3; a steering-pull compensator responsive to a signal indicative of a valid detection cycle for modifying said torque assist command to the motor by an offset corresponding to a detected steering condition on lines 59-63, on column 3; at least one summing function in signal

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communication with said torque assist function and with said steering-pull compensator for summing the provided torque assist command with the offset corresponding to a detected input device pull-condition on lines 36-41, on column 9; a filter responsive to the signal indicative of input device torque on lines 27-32, on column 9; and a condition processing block for determining if the vehicle is being driven in substantially straight path on lines 42-45, on column 9.

4. As per claims 5, 6, 8, 9, 10, 11, 27, 28, 30, 31, 32, and 33, Schaffer discloses an enable block for validating the detected steering-pull condition on lines 42-45, on column 9; an enable switch for receiving a binary control signal from the enable block on lines 42-47, on column 9; a memory switch for receiving its own signal at its primary input terminal in figure 6; a function block for providing a signal to a non-inverting input of the summing function in figure 6, the box that show Tp=Tp+deltaT.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 34 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schaffer, 5048630, in view of Howard, 6272947.
- 7. Schaffer discloses the limitations as set forth above. Schaffer does not disclose the motor is electric. Howard teaches the motor is electric on lines 22-25, on column 15. It would have been obvious to one of ordinary skill in the art at the time the

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invention was made to use the electric motor of Howard in the invention of Schaffer because such modification would prevent drift or steering pull in a vehicle that uses an electric motor to control steering assist. Howard discloses the desirability of such a system on lines 65-67, on column 4.

Response to Arguments

8. Applicant's arguments filed 7-24-03 have been fully considered but they are not persuasive. The applicant argues that Schaffer does not disclose a motor or modifying the torque-assist command to the motor. The applicant is interpreting the term motor too narrowly. A motor is a device that imparts motion. The hydraulic system of Schaffer does impart motion on the steering system. Applicant also argues that Schaffer fails to disclose a valid detection cycle, but this is also not the case. On column 9, Schaffer discloses the measurement period of his system and the conditions necessary for the trim device to operate including a substantially straight vehicle path.

Allowable Subject Matter

- 9. Claim 7, 29, 13-19, 21, and 22 are allowed.
- 10. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not disclose a function block for preventing an offset correction corresponding to a detected steering-pull condition from exceeding a desired value; and determining whether at least one of the duration of the monitored ignition signal exceeds a threshold duration value and the distance traveled by vehicle exceeds a threshold distance value.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Broadhead whose telephone number is 703-308-9033. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William A. Cuchlinski can be reached on 703-308-3873. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7687 for regular communications and 703-305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1113.

BJB October 20, 2003 WILLIAM A. CUCHLINSKI, JR. SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600

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